

Application No.: 10/763,546
Amendment dated: September 15, 2004
Reply to Office Action of June 15, 2004
Attorney Docket No.: 1002.02.div

This listing of claims will replace all prior versions and listings of claims in this application:

a.) Listing of Claims

1. (currently amended) An optical spectral monitoring system, comprising:
a broadband superluminescent light emitting diode (SLED) source; and
a tunable filter that filters an optical signal generated by the SLED source; and
a hermetic package in which the SLED source and the tunable filter are
installed.
2. (currently amended) An optical spectral monitoring system as claimed in
claim 1, further comprising a hermetic package in which the SLED source and
the tunable filter are installed.
3. (Original) An optical spectral monitoring system as claimed in claim 1, further
comprising an optical bench on which the SLED source and the tunable filter are
installed.
4. (currently amended) An optical spectral monitoring system, comprising:
a broadband superluminescent light emitting diode (SLED) source; and
a tunable filter that filters an optical signal generated by the SLED source; and
as claimed in claim 1, further comprising an isolator between the SLED source
and the tunable filter for blocking backreflections into the SLED.
5. (Original) An optical spectral monitoring system as claimed in claim 1,
wherein a finesse of the tunable filter is greater than 3000.
6. (Original) An optical spectral monitoring system as claimed in claim 1,
wherein the tunable filter is a Fabry-Perot filter.
7. (currently amended) An optical spectral monitoring system ~~as claimed in~~
~~claim 1, wherein the tunable filter is,~~ comprising:
a broadband superluminescent light emitting diode (SLED) source; and

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a microelectromechanical system (MEMS) Fabry-Perot filter that filters an optical signal generated by the SLED source.

8. (Original) An optical spectral monitoring system as claimed in claim 1, wherein the optical signal includes the 1250-1350 nanometer wavelength range.
9. (currently amended) An optical spectral monitoring system , comprising:
a broadband superluminescent light emitting diode (SLED) source;
a tunable filter that filters an optical signal generated by the SLED source; and
~~as claimed in claim 1, further comprising~~ an optical bench on which the SLED source and tunable filter are installed, the tunable filter being installed orthogonally in the bench to filter the optical signal, which is propagating parallel to the bench.
10. (Original) An optical spectral monitoring system as claimed in claim 1, further comprising a detector that detects the filtered optical signal from the tunable filter.